

SEQUENCE LISTING

<110> German, Michael S.
Lin, Joseph

<120> PRODUCTION OF PANCREATIC ISLET CELLS
AND DELIVERY OF INSULIN

<130> UCSF-129CIP

<150> 09/535,145

<151> 2000-03-24

<150> 60/128,180

<151> 1999-04-06

<160> 19

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 5340

<212> DNA

<213> Homo Sapiens

<400> 1

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 <212> PRT
 <213> Homo Sapiens

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 Thr Ser Ala Pro Pro Ser Pro Thr Arg Thr Arg Gly Asn Cys Ala Glu
 35 40 45
 Ala Glu Glu Gly Gly Cys Arg Gly Ala Pro Arg Lys Leu Arg Ala Arg
 50 55 60
 Arg Gly Gly Arg Ser Arg Pro Lys Ser Glu Leu Ala Leu Ser Lys Gln
 65 70 75 80
 Arg Arg Ser Arg Arg Lys Lys Ala Asn Asp Arg Glu Arg Asn Arg Met
 85 90 95
 His Asn Leu Asn Ser Ala Leu Asp Ala Leu Arg Gly Val Leu Pro Thr
 100 105 110
 Phe Pro Asp Asp Ala Lys Leu Thr Lys Ile Glu Thr Leu Arg Phe Ala
 115 120 125
 His Asn Tyr Ile Trp Ala Leu Thr Gln Thr Leu Arg Ile Ala Asp His
 130 135 140
 Ser Leu Tyr Ala Leu Glu Pro Pro Ala Pro His Cys Gly Glu Leu Gly
 145 150 155 160
 Ser Pro Gly Gly Ser Pro Gly Asp Trp Gly Ser Leu Tyr Ser Pro Val
 165 170 175
 Ser Gln Ala Gly Ser Leu Ser Pro Ala Ala Ser Leu Glu Glu Arg Pro
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 Gly Leu Leu Gly Ala Thr Ser Ser Ala Cys Leu Ser Pro Gly Ser Leu
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 Ala Phe Ser Asp Phe Leu
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 Pro Gly Gly Gly Ser Asn Gly Asp Trp Gly Ser Ile Tyr Ser Pro Val
 165 170 175
 Ser Gln Ala Gly Asn Leu Ser Pro Thr Ala Ser Leu Glu Glu Phe Pro
 180 185 190
 Gly Leu Gln Val Pro Ser Ser Pro Ser Tyr Leu Leu Pro Gly Ala Leu
 195 200 205
 Val Phe Ser Asp Phe Leu
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<210> 6
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<220>
 <223> primer

<400> 6
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<210> 7
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<220>
 <223> oligonucleotide primer

<400> 7
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<210> 9
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 <223> H3-1

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 <220>
 <223> H3-2

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 <223> H1

 <400> 12
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 <210> 13
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> H2

 <400> 13
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<210> 14
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<212> DNA
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<223> H1P

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<220>
<223> E1

<400> 15
gatctaaatt tcccatgtg taacgtgcag

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<210> 16
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31

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<223> N3/4

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31

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<211> 75
<212> DNA
<213> Homo sapiens

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gtggggcttt ctttt 75